


		NTSB ID: DEN03LA010		Aircraft Registration Number: N219DF	
		Occurrence Date: 10/19/2002		Most Critical Injury: None	
		Occurrence Type: Accident		Investigated By: NTSB	
Location/Time					
Nearest City/Place Watkins	State CO	Zip Code 80137	Local Time 1241	Time Zone MDT	
Airport Proximity: On Airport		Distance From Landing Facility:		Direction From Airport:	
Aircraft Information Summary					
Aircraft Manufacturer Hildebrandt		Model/Series Rutan/Defiant		Type of Aircraft Airplane	
Sightseeing Flight: No			Air Medical Transport Flight: No		
Narrative					
<p>Brief narrative statement of facts, conditions and circumstances pertinent to the accident/incident:</p> <p>On October 19, 2002, at 1241 mountain daylight time, a Hildebrandt Rutan/Defiant, N219DF, was substantially damaged during a forced landing following a loss of engine oil pressure at Front Range Airport, Watkins, Colorado. The private pilot, the sole occupant aboard, was not injured. Visual meteorological conditions prevailed, and no flight plan had been filed for the personal flight being conducted under Title 14 CFR Part 91. The local flight originated at 1240.</p> <p>The following is based on the pilot's accident report. After taking off on runway 26 and turning onto the crosswind leg, the pilot noticed the rear engine oil pressure was dropping. After turning onto the downwind leg, the pilot reduced power on the rear engine to idle. When he was on final approach and felt assured of landing on runway 26, he shut down the rear engine. When he retarded the throttle on the front engine, he noticed power was not decreasing. He secured the front engine by turning off the ignition and glided to a landing but he forgot to lower the nose landing gear. The airplane touched down, the nose struck the runway, and the airplane skidded to a halt on the runway. The airplane's nose section, including the "Rhino" rudder, was crushed and several fuselage bulkheads were buckled.</p> <p>Examination of the airplane disclosed the front engine throttle cable had broken, and there was a broken oil pressure sensor line in the rear engine. In his accident report, the pilot noted that the accident could have been prevented if he had followed "better emergency procedures --- use of the emergency checklist."</p>					
FACTUAL REPORT - AVIATION					

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		Occurrence Type: Accident				
<b>Landing Facility/Approach Information</b>						
Airport Name Front Range		Airport ID: FTG	Airport Elevation 5512 Ft. MSL	Runway Used 26	Runway Length 8000	Runway Width 100
Runway Surface Type: Asphalt						
Runway Surface Condition: Dry						
Type Instrument Approach: NONE						
VFR Approach/Landing: Forced Landing						
<b>Aircraft Information</b>						
Aircraft Manufacturer Hildebrandt		Model/Series Rutan/Defiant		Serial Number 039		
Airworthiness Certificate(s): Experimental (Special)						
Landing Gear Type: Retractable - Tricycle						
Homebuilt Aircraft? Yes		Number of Seats: 4	Certified Max Gross Wt. 3400 LBS	Number of Engines: 2		
Engine Type: Reciprocating		Engine Manufacturer: Lycoming	Model/Series: O-360-A1A	Rated Power: 180 HP		
<b>- Aircraft Inspection Information</b>						
Type of Last Inspection Annual		Date of Last Inspection 10/2002	Time Since Last Inspection 3 Hours	Airframe Total Time 605 Hours		
<b>- Emergency Locator Transmitter (ELT) Information</b>						
ELT Installed? Yes		ELT Operated? No	ELT Aided in Locating Accident Site?			
<b>Owner/Operator Information</b>						
Registered Aircraft Owner  Gregory A. Benson		Street Address On File				
		City Denver	State CO	Zip Code 80211		
Operator of Aircraft  Same as Reg'd Aircraft Owner		Street Address Same as Reg'd Aircraft Owner				
		City	State	Zip Code		
Operator Does Business As:			Operator Designator Code:			
<b>- Type of U.S. Certificate(s) Held: None</b>						
Air Carrier Operating Certificate(s):						
Operating Certificate:			Operator Certificate:			
Regulation Flight Conducted Under: Part 91: General Aviation						
Type of Flight Operation Conducted: Personal						
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<b>First Pilot Information</b>																																																																																				
Name		City		State	Date of Birth	Age																																																																														
On File		On File		On File	On File	37																																																																														
Sex: M	Seat Occupied: Left	Principal Profession: Unknown		Certificate Number: On File																																																																																
Certificate(s): Private																																																																																				
Airplane Rating(s): Multi-engine Land; Single-engine Land																																																																																				
Rotorcraft/Glider/LTA: None																																																																																				
Instrument Rating(s): None																																																																																				
Instructor Rating(s): None																																																																																				
Type Rating/Endorsement for Accident/Incident Aircraft?			Current Biennial Flight Review? 04/2001																																																																																	
Medical Cert.: Class 3		Medical Cert. Status: Valid Medical--no waivers/lim.		Date of Last Medical Exam: 05/2001																																																																																
<table border="1"> <tr> <th rowspan="2">- Flight Time Matrix</th> <th rowspan="2">All A/C</th> <th rowspan="2">This Make and Model</th> <th rowspan="2">Airplane Single Engine</th> <th rowspan="2">Airplane Multi-Engine</th> <th rowspan="2">Night</th> <th colspan="2">Instrument</th> <th rowspan="2">Rotorcraft</th> <th rowspan="2">Glider</th> <th rowspan="2">Lighter Than Air</th> </tr> <tr> <th>Actual</th> <th>Simulated</th> </tr> <tr> <td>Total Time</td> <td>575</td> <td>22</td> <td>553</td> <td>22</td> <td>60</td> <td></td> <td>7</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Pilot In Command(PIC)</td> <td>486</td> <td>22</td> <td>486</td> <td>22</td> <td>60</td> <td></td> <td>7</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Instructor</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 90 Days</td> <td>2</td> <td>2</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 30 Days</td> <td>2</td> <td>2</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 24 Hours</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						- Flight Time Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Multi-Engine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air	Actual	Simulated	Total Time	575	22	553	22	60		7				Pilot In Command(PIC)	486	22	486	22	60		7				Instructor											Last 90 Days	2	2		2							Last 30 Days	2	2		2							Last 24 Hours										
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Seatbelt Used? Yes		Shoulder Harness Used? Yes		Toxicology Performed? No		Second Pilot? No																																																																														
<b>Flight Plan/Itinerary</b>																																																																																				
Type of Flight Plan Filed: None																																																																																				
Departure Point		State	Airport Identifier	Departure Time	Time Zone																																																																															
Watkins		CO	FTG	1240	MDT																																																																															
Destination		State	Airport Identifier																																																																																	
Local Flight			FTG																																																																																	
Type of Clearance: None																																																																																				
Type of Airspace: Class E																																																																																				
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Source of Briefing: Unknown																																																																																				
Method of Briefing: Unknown																																																																																				


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		Occurrence Type: Accident	

<b>Weather Information</b>					
WOF ID	Observation Time	Time Zone	WOF Elevation	WOF Distance From Accident Site	Direction From Accident Site
FTG	1243	MDT	5512 Ft. MSL	NM	Deg. Mag.
Sky/Lowest Cloud Condition: Clear			Ft. AGL	Condition of Light: Day	
Lowest Ceiling: None			Ft. AGL	Visibility: 10 SM	Altimeter: 30.06 "Hg
Temperature: 12 °C	Dew Point: -5 °C	Wind Direction: 50		Density Altitude: 6263 Ft.	
Wind Speed: 3	Gusts:	Weather Conditions at Accident Site: Visual Conditions			
Visibility (RVR): Ft.	Visibility (RVV) SM	Intensity of Precipitation:			
Restrictions to Visibility: None					
Type of Precipitation: None					

<b>Accident Information</b>					
Aircraft Damage: Substantial		Aircraft Fire: None		Aircraft Explosion: None	
Classification: U.S. Registered/U.S. Soil					
- Injury Summary Matrix	Fatal	Serious	Minor	None	TOTAL
First Pilot				1	1
Second Pilot					
Student Pilot					
Flight Instructor					
Check Pilot					
Flight Engineer					
Cabin Attendants					
Other Crew					
Passengers					
- TOTAL ABOARD -				1	1
Other Ground					
- GRAND TOTAL -				1	1

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FACTUAL REPORT - AVIATION					
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	Occurrence Type: Accident	
Administrative Information		
Investigator-In-Charge (IIC) Arnold W. Scott		
Additional Persons Participating in This Accident/Incident Investigation:  Robert C Bunderson Aviation Safety Inspector - Airworthiness FAA Flight Standards District Office 26805 E. 68th Avenue, Suite 200 Denver, CO 80249		
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